



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/084,608	02/26/2002	Norio Koma	349	4219

26021 7590 01/29/2007  
HOGAN & HARTSON L.L.P.  
1999 AVENUE OF THE STARS  
SUITE 1400  
LOS ANGELES, CA 90067

EXAMINER
----------

CALEY, MICHAEL H

ART UNIT	PAPER NUMBER
----------	--------------

2871

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	01/29/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

## Office Action Summary

Application No.

10/084,608

Applicant(s)

KOMA, NORIO

Examiner

Michael H. Caley

Art Unit

2871

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 10 October 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 14-16 and 20-25 is/are pending in the application.
- 4a) Of the above claim(s) 20-25 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 14-16 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 26 February 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☒ Certified copies of the priority documents have been received in Application No. 09/162,984.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- ☐ Notice of Informal Patent Application
- ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

**Claims 14-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Lien et al. (U.S. Patent No. 5,309,264 “Lien”).**

Regarding claim 14, Takeda discloses a vertically aligned liquid crystal display (abstract; Column 2 lines 6-9) having:

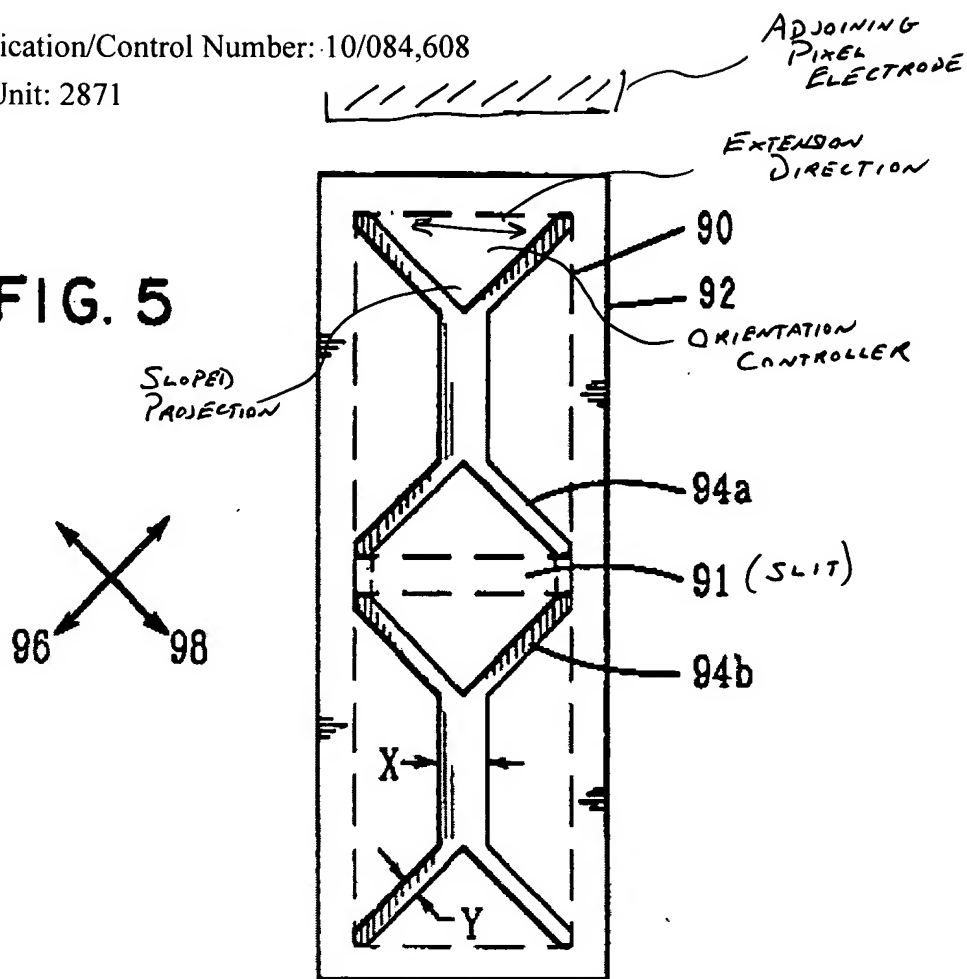
vertically aligned liquid crystal (Column 2 lines 6-9, Column 3 lines 22-24)  
disposed between a plurality of pixel electrodes (Figure 5 element 90) and a common electrode (92), the orientation of the liquid crystal being controlled by an electric field (Column 3 lines 49-58), wherein;

the liquid crystal is vertically aligned with respect to a plane of a substrate and light is blocked in the display when no voltage is applied to the liquid crystal (Figure 5 elements 96 and 98; Column 4 lines 20-29) and an amount of emission light emitted from the display is adjusted by the liquid crystal tilting from a vertically aligned state according to an applied voltage when a voltage is applied to the liquid crystal (Column 4 lines 20-29),

the common electrode comprising a plurality of orientation controllers (parts of element 92 separated by openings 94a and 94b, or alternatively, openings 94a and 94b) formed in areas corresponding to each of the plurality of pixel electrodes, respectively, one or more line shaped slits (Figure 5 element 91) in which no electrode is present is formed in each of the plurality of pixel electrodes and each of the plurality of pixel electrodes is divided by the one or more slits into two or more electrode regions, which are electrically connected and arranged proximate to each other with the slit therebetween, and

each of the plurality of orientation controllers is associated with a corresponding one of the plurality of pixel electrodes and has portions extending along the direction in which the one or more slits extend (see Figure 5 illustrated below), and one of the plurality of orientation controllers is disposed between two of the slits or between the corresponding one of the one or more slits and a gap between adjoining pixel electrodes (Figure 5).

FIG. 5



Regarding claim 15, Lien discloses each one of the plurality of orientation controllers as having a sloped projection extending along the longer edge of each of the electrode regions in an area facing the center part in each of the two or more electrode regions (elements 94a and 94b or regions separated by 94a and 94b).

Regarding claim 16, Lien discloses each one of the plurality of orientation controllers as branching at both longitudinal ends of a corresponding one of the electrode regions toward the corner sections of the electrode regions (elements 94a and 94b).

***Response to Arguments***

Applicant's arguments with respect to claims 14-16 have been considered but are moot in view of the new ground(s) of rejection.

***Contact Information***


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael H. Caley whose telephone number is (571) 272-2286. The examiner can normally be reached on M-F 8:30 a.m. - 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David C. Nelms can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Michael H. Caley  
January 10, 2007

  
mhc

  
ANDREW SCHECHTER  
PRIMARY EXAMINER